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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
BEFORE THE BOARD OF PATENT APPEALS AND INTERFERENCES

In re Application of: McLeod §
Serial No.: 10/699,956 § Group Art Unit: 1732
Confirmation No.: 5094 §
Filed: November 3, 2003 § Examiner: Vargot
For: Increasing Syndiotactic Propylene
Polymer Cast Film Line Speed §

Mail Stop Appeal Brief-Patents
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Honorable Commissioner:

CERTIFICATE OF MAILING

37 CFR 1.10

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~~Signature~~

TRANSMITTAL LETTER

In connection with the above identified application, Applicants respectfully resubmit the following in response to the Notice of Non-Compliant Appeal Brief dated January 19, 2006:

1. Appeal Brief.

Respectfully submitted,

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APPEAL BRIEF

Applicants submit this Appeal Brief to the Board of Patent Appeals and Interferences on appeal from the decision of the Examiner of Group Art Unit 1732 dated July 7, 2005, finally rejecting claims 43-71.

Real Party in Interest

The present application has been assigned to Fina Technology Inc., P.O. Box 674412, Houston, Texas 77267.

Related Appeals and Interferences

Appellants assert that no other appeals, interferences or judicial proceedings are known to the Appellants, the Appellants' legal representative or Assignee that will

directly affect, be directly affected by or have a bearing on the Board's decision in the pending appeal.

Status of Claims

Claims 43-71 are pending in the application. Claim 53 stands rejected under 35 U.S.C. §112, second paragraph. Claims 43-44, 48, 52-53, 56, 64 and 66-71 stand rejected under 35 U.S.C. §102(b) and claims 45-47, 49-51, 54-55 and 57-63 stand rejected under 35 U.S.C. §103(a). The rejection of the pending claims is appealed. The pending claims are shown in the attached Appendix A.

Status of Amendments

Claims 43-71 were submitted to replace original claims 1-36. No amendments have been made to the pending claims.

Summary of the Claimed Subject Matter

The unique characteristics of syndiotactic polypropylene (sPP) not only make it useful in film formation, but also present unique processing challenges. In particular, processing sPP under conditions normally associated with processing isotactic polypropylene (iPP) may be problematic because molten sPP is tackier than molten iPP. *See*, specification, at least paragraph 5. The embodiments recited in the pending claims generally provide a process of sPP film formation.

Grounds of Rejection to be Reviewed on Appeal

1. The rejection of claims 43-44, 48, 52-53, 56, 64 and 66-71 under 35 U.S.C. §102(b) as being anticipated by U.S. Patent No. 6,245,857 (*Shamshoum.*)
2. The rejection of claims 45-47, 49-51, 54-55, 57-63 and 65 under 35 U.S.C. §103(a) as being unpatentable over *Shamshoum.*

Arguments

I. THE EXAMINER ERRED IN REJECTING CLAIMS 43-44, 48, 52-53, 56, 64 AND 66-71 UNDER 35 U.S.C. §102(b) AS BEING ANTICIPATED BY *SHAMSHOUM* BECAUSE *SHAMSHOUM* DOES NOT SHOW A SYNDIOTACTIC POLYPROPYLENE FILM

Shamshoum teaches highly isotactic polypropylene (iPP) films. Such films may incorporate a small amount (from about 0.01% to about 30%) of syndiotactic polypropylene (sPP) to reduce the brittleness of the iPP. *See*, column 2, at least lines 25-30. However, *Shamshoum* clearly teaches iPP film formation. *Shamshoum* (as is known in the art) defines the term iPP film as a film in which the majority of the polyolefin composition is highly isotactic polyolefin. *See*, column 2, at least lines 30-35.

In contrast, the present claims recite a “homopolymer of syndiotactic propylene (sPP) film”. *See*, at least claim 71. The films enabled by the present specification are syndiotactic polypropylene films. *See*, specification, at least paragraphs 11 and 14. Accordingly, it is widely recognized in the art that sPP films are films in which the majority of the polyolefin composition is syndiotactic polypropylene. As discussed above, *Shamshoum* does not teach, show or suggest syndiotactic polypropylene films.

Therefore, reversal of the rejection is respectfully requested.

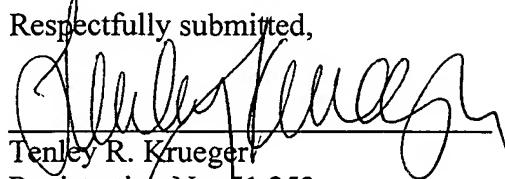
II. THE EXAMINER ERRED IN REJECTING CLAIMS 45-47, 49-51, 54-55, 57-63 AND 65 UNDER 35 U.S.C. §103(a) AS BEING UNPATENTABLE OVER *SHAMSHOUM* BECAUSE *SHAMSHOUM* DOES NOT TEACH, SHOW OR SUGGEST

The Examiner set forth the same arguments for the §103(a) rejection as the §102(b) rejection. Applicants distinguished *Shamshoum* from the pending claims in the above discussion and feel that repeating such arguments is unnecessary. Based on such previously presented arguments, Applicants respectfully request reversal of the rejection.

Conclusion

In conclusion, *Shamshoum* nowhere teaches or suggests syndiotactic polypropylene films, such as recited in the pending claims. Thus, Applicants respectfully request reversal of the rejections of claims 43-71.

Respectfully submitted,


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Appendix A
Pending Claims

43. A method comprising:
 casting a film comprising a homopolymer of syndiotactic propylene (sPP) at a film line speed of from about 35 to about 200 feet per minute.

43. The method of Claim 43, wherein the film line speed is from about 70 to about 150 feet per minute.

44. The method of Claim 43 wherein the film line speed is from about 90 to about 120 feet per minute.

45. The method of Claim 43 further comprising maintaining a casting temperature of less than about 430 degrees Fahrenheit.

46. The method of Claim 43 further comprising maintaining a casting temperature of less than about 350 degrees Fahrenheit.

47. The method of Claim 43 further comprising maintaining a casting temperature of less than about 300 degrees Fahrenheit.

48. The method of Claim 43, wherein the casting occurs on a cast roll and wherein the cast roll is maintained at a temperature of from about 50 to about 130 degrees Fahrenheit.

49. The method of Claim 48, wherein the cast roll is maintained at a temperature of from about 70 to about 120 degrees Fahrenheit.

50. The method of Claim 48, wherein the cast roll is maintained at a temperature of from about 90 to about 110 degrees Fahrenheit.

51. The method of Claim 43, wherein the sPP comprises a peak melt temperature of from about 120 to about 140 degrees Celsius.
52. The method of Claim 43 further comprising adding a processing aid to the sPP prior to casting.
53. The method of Claim 52, wherein the concentration of the processing aid in the sPP is from about 0 to about 3,000 parts per million by weight of sPP.
54. The method of Claim 52, wherein the concentration of the processing aid in the sPP is from about 100 to about 1,500 parts per million by weight of sPP.
55. The method of Claim 52, wherein the concentration of the processing aid in the sPP is from about 900 to about 1100 parts per million by weight of sPP.
56. The method of Claim 52, wherein the processing aid comprises a fluoropolymer.
57. The method of Claim 52, wherein the processing aid comprises a fluoroelastomer.
58. The method of Claim 52, wherein the film comprises a coefficient of friction of less than about 1.0.
59. The method of Claim 52, wherein the film comprises a coefficient of friction of less than about 0.7.
60. The method of Claim 52, wherein the film comprises a coefficient of friction of less than about 0.4.
61. The method of Claim 52, wherein the film comprises a maximum tensile strength of at least about 4,200 pounds per square inch.

62. The method of Claim 52, wherein the film comprises a maximum tensile strength of at least about 5,000 pounds per square inch.
63. The method of Claim 52, wherein the film comprises a maximum tensile strength of at least about 6,000 pounds per square inch.
64. The method of Claim 52, wherein a haze of the film is greater than about 10 percent.
65. The method of Claim 52, wherein a 20 degree gloss of the film is less than about 20 percent.
66. The method of Claim 52, wherein a 45 degree gloss of the film is less than about 90 percent.
67. The method of Claim 52, wherein a percent elongation of the film is less than about 600 percent.
68. The method of Claim 43, wherein the film is from about 0.5 to about 6 mils thick.
69. The method of Claim 43, wherein the film is from about 1 to about 5 mils thick.
70. The method of Claim 43, wherein the film is from about 2 to about 4 mils thick.
71. A homopolymer of syndiotactic propylene (sPP) film cast at from about 35 to about 200 feet per minute.

Appendix B

Evidence

Not applicable

Appendix C
Related Proceedings

Not Applicable